

Website: http://khoapham.vn

Địa chỉ: 90 Lê Thị Riêng, P.Bến Thành, Q.1, TP.HCM

Diên thoại: 0966 908 907 - 094 276 4080

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Lạp trình Javascript dành cho nodejs

1- Khai báo biến

```
var x = 5;
var y = 6;
var z = x + y;
```

2- Toán tử

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulus
++	Increment
	Decrement

Cách khai báo toán tử khác:

Operator	Example	Same As
=	x = y	x = y
+=	x += y	x = x + y
-=	x -= y	x = x - y
*=	x *= y	x = x * y
/=	x /= y	x = x / y
%=	x %= y	x = x % y



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3- Các phép toán so sánh

Operator	Description
==	equal to
===	equal value and equal type
!=	not equal
!==	not equal value or not equal type
>	greater than
<	less than
>=	greater than or equal to
<=	less than or equal to
?	ternary operator

4 - Kiểu dữ liệu

5 - Functions (Hàm)

Ví dụ:



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6- Objects

Object	Properties	Methods
	car.name = Fiat	car.start()
	car.model = 500	car.drive()
	car.weight = 850kg	car.brake()
	car.color = white	car.stop()

```
var car = "Fiat";

var car = {type:"Fiat", model:"500", color:"white"};
```

7- Các hàm xử lý Chuỗi

a- Đếm chiều dài chuỗi:

```
var txt = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
var sln = txt.length;
```

b- Tìm kí tự trong chuỗi

```
var str = "Please locate where 'locate' occurs!";
var pos = str.indexOf("locate");

var str = "Please locate where 'locate' occurs!";
var pos = str.lastIndexOf("locate");
```

c- Cắt chuỗi với Slice

```
var str = "Apple, Banana, Kiwi";
var res = str.slice(7,13);

The result of res will be:

Banana
```

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KHOA TRUNG TÂM ĐÀO TẠO TIN HỌC KHOA PHẠM

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8- Ép kiễu dữ liệu

9 - Các hàm toán học

Method	Description
abs(x)	Returns the absolute value of x
acos(x)	Returns the arccosine of x, in radians
asin(x)	Returns the arcsine of x, in radians
atan(x)	Returns the arctangent of x as a numeric value between -PI/2 and PI/2 radians
atan2(y,x)	Returns the arctangent of the quotient of its arguments
ceil(x)	Returns x, rounded upwards to the nearest integer
cos(x)	Returns the cosine of x (x is in radians)
exp(x)	Returns the value of E ^x
floor(x)	Returns x, rounded downwards to the nearest integer
log(x)	Returns the natural logarithm (base E) of x
max(x,y,z,,n)	Returns the number with the highest value
min(x,y,z,,n)	Returns the number with the lowest value
pow(x,y)	Returns the value of x to the power of y
random()	Returns a random number between 0 and 1
round(x)	Rounds x to the nearest integer
sin(x)	Returns the sine of x (x is in radians)
sqrt(x)	Returns the square root of x
tan(x)	Returns the tangent of an angle



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10 - Mång (Array)

a- Tạo mảng

```
var cars = [
    "Saab",
    "Volvo",
    "BMW"

];
var cars = new Array("Saab", "Volvo", "BMW");

[];
```

b- Truy cập phần tử

```
var name = cars[0];
```

C - Đếm số phần tử:

D - Thêm phần tử

11- Câu lệnh If

```
if (hour < 18) {
    greeting = "Good day";
} else {
    greeting = "Good evening";
}

greeting = "Good evening";
}

if (time < 10) {
    greeting = "Good morning";
} else if (time < 20) {
    greeting = "Good day";
} else {
    greeting = "Good evening";
}</pre>
The result of greeting will be:
```

Good morning



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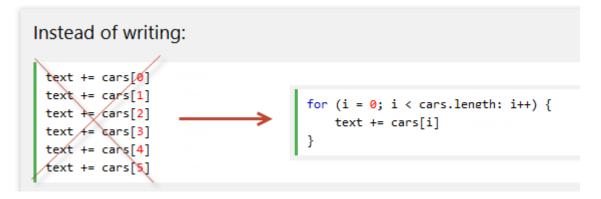
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12 - Switch

```
switch (new Date().getDay()) {
   case 0:
        day = "Sunday";
       break;
    case 1:
        day = "Monday";
                                           switch (new Date().getDay()) {
        break;
    case 2:
                                                   text = "Today is Saturday";
       day = "Tuesday";
                                                   break;
        break;
                                                case 0:
                                                   text = "Today is Sunday";
       day = "Wednesday";
                                                   break;
       break;
                                               default:
    case 4:
                                                   text = "Looking forward to the Weekend";
        day = "Thursday";
        break;
    case 5:
       day = "Friday";
       break;
    case 6:
       day = "Saturday";
}
```

13- Vòng lặp For



14- Vòng lặp While

```
while (i < 10) {
    text += "The number is " + i;
    i++;
}

do {
    text += "The number is " + i;
    i++;
}

while (i < 10);</pre>
```



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15- Regular Expression

Expression	Description
[abc]	Find any of the characters between the brackets
[0-9]	Find any of the digits between the brackets
(x y)	Find any of the alternatives separated with

Metacharacters are characters with a special meaning:

Metacharacter	Description
\d	Find a digit
\s	Find a whitespace character
\b	Find a match at the beginning or at the end of a word
\uxxxx/	Find the Unicode character specified by the hexadecimal number xxxx

Quantifiers define quantities:

Quantifier	Description
n+	Matches any string that contains at least one n
n*	Matches any string that contains zero or more occurrences of \boldsymbol{n}
n?	Matches any string that contains zero or one occurrences of $\it n$